

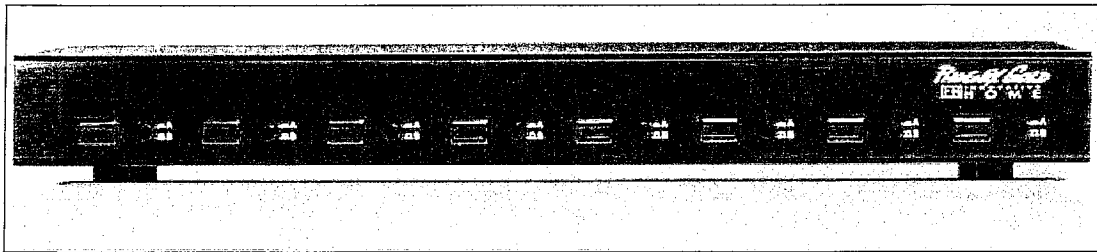


# DSSM Dual Source Smart Audio Management Speaker Selectors

*DSSM8 200/100 Watt RMS 8 Zone Speaker Selector, A/B Source Selection and Impedance Matching System*

*DSSM6 140/70 Watt RMS 6 Zone Speaker Selector, A/B Source Selection and Impedance Matching System*

*DSSM4 140/70 Watt RMS 4 Zone Speaker Selector, A/B Source Selection and Impedance Matching System*



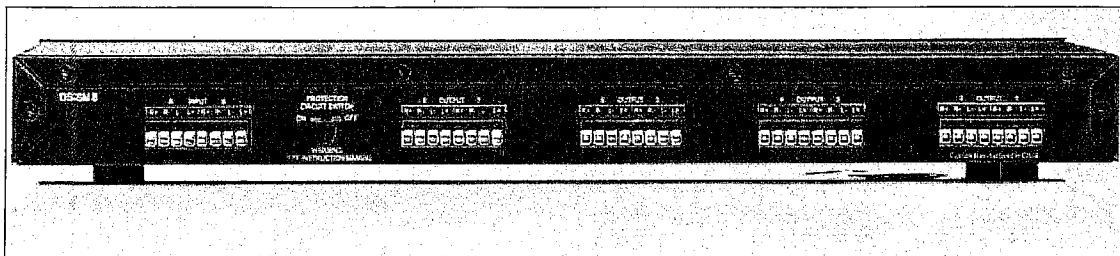
- \*DSSM8 chassis measurements 17" x 6" x 1.75" - 432mm x 152mm x 45mm
- \*DSSM6 chassis measurements 17" x 6" x 1.75" - 432mm x 152mm x 45mm
- \*DSSM4 chassis measurements 8.5" x 6" x 1.75" - 216mm x 152mm x 45mm

Thank you for selecting Phoenix Gold Innovative Home installation components. Doing so demonstrates your appreciation for high quality, high performance audio and video reproduction. The DSSM's take the standard set by the original ISM products to a whole new level and sets a new standard in design, flexibility and affordability for the installation of multi-source, multi-zone speaker systems in any installation.

The DSSM8, DSSM6 and DSSM4 are low-profile speaker distribution systems with individual on/off selectors for each listening zone and the ability to select either of two speaker-level signal sources.

The DSSM8 distributes either of two stereo speaker-

level signals to eight stereo listening zones. The DSSM6 distributes either of two stereo speaker-level signals to six stereo listening zones. The DSSM4 distributes either of two stereo speaker-level signals to four stereo listening zones. All DSSM's feature a manually activated power protection circuit switch located on the rear panel, activating four pairs in the DSSM4 DSSM6, or six pairs in the DSSM8, of high power resistors (two or four 10ohm/15 watt resistors per channel, per source component wired in parallel providing up to 50% more power handling capability than the competition) while maintaining a stable 5 ohm impedance load to ensure amplifier stability.



## Use of the Protection Circuit Switch

It is recommended that if you are using impedance matching volume controls in conjunction with your DSSM Speaker Selector, you should ensure that the Protection Circuit switch on the rear panel is in the "OFF" position. The DSSM Selectors ship with the switch preset for the "OFF" position.

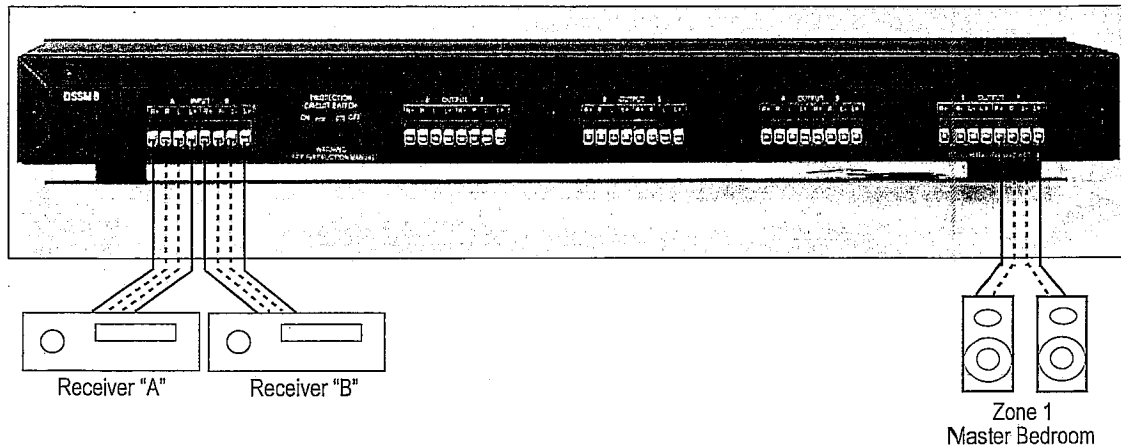
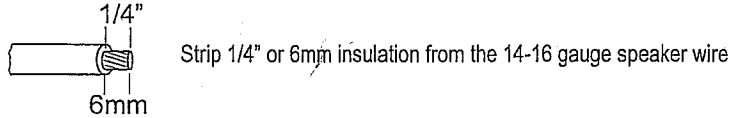
If you turn all of the remote volume controls down to fully attenuate the level in all zones, and leave all zones in the "ON" position on the DSSM with your amplifier set to a reasonably high level you could cause the

DSSM Speaker Selector and your amplifier to severely overheat. Disengaging the Protection Circuit Switch will bypass the resistors and prevent this damage. Be aware that the maximum power rating of an DSSM4 or DSSM6 Speaker Selector with the Protection Switch "Off" is 140W per channel, and 200W per channel for the DSSM8. Any DSSM switcher returned with burnt resistors will not be covered under the one year limited warranty, as this condition clearly shows abuse. For more information on the DSSM Speaker selectors call our Tech Support at 503.978.3365.

## Installation and Connection Procedures

The "+/-" polarity connections for the input and output screw-type speaker terminals are clearly marked on the rear panel. The modules which allow the wires to be connected can be removed for ease of wiring. Please connect the speaker cable to the appropriate "+/-" terminals. These terminals will accept up to 14 gauge speaker cable and we highly recommend utilizing at minimum a 16 to 14 gauge speaker cable. *Note:* Separate Left and Right ground paths ensure compatibility with all amplifiers, even when

used in bridged mode! Route the speaker cables from each speaker zone and the amplifier to the DSSM speaker selector. Strip 1/4" (6mm) insulation from the end of the cable and twist the exposed end to avoid fraying. Loosen the screw on the appropriate speaker terminal and insert the stripped end of the cable into the speaker terminal. Be sure to observe proper "+/-" polarity when connecting the speaker cables. Re-tighten the screw to clamp the cable in place. Gently pull on the cable to ensure it is secure and properly connected.



DSSM switchers have the ability to select between "A" and "B" sources. There is an 8-position plug on the left rear of the unit which is labeled "INPUT". This is where the speaker level inputs from the two sources ("A" and "B") are connected. Attach the wires in the same manner as the speaker wires connect to the outputs of the DSSM unit (see above for details).



**Note:** Always insure that both source components are unplugged and powered down before making these connections.

The system is now ready for testing. Turn on the sound system and set the amplifier's volume control to a moderate level. Sound should be heard from each zone when its button is depressed. Please check each zone appropriately including proper left and right connections by activating each zone with the balance adjusted to full left and then to full right. If you have connected two sources ("A" and "B") test each zone's source switching by depressing the button on the front panel. If the button is in the "in" position, the source is "A". If the button is in the "out" position, the source is "B". If you have only one source connected, the buttons should all be set to "A". Attach the custom die-cut labels provided to the rectangular buttons of the DSSM's referencing each button to an appropriate zone within the installation.

## Installation Precautions

Under normal circumstances do not leave the "Power Protection Circuit" disabled unless your amplifier can handle the combined impedance of all zones activated. For example, an DSSM6 with six pairs of 8 ohm speakers will present the amplifier with a 1.33 ohm load per channel with the power protection circuit switch "OFF" position. This may damage your amplifier or cause it to thermally protect itself by shutting down. With the power protection circuit switch "ON", the amplifier will see 6.33 ohms per channel, which will not present a problem for most amplifiers. Please consult your authorized dealer and/or the owner's manual for your amplifier for complete details.

Power handling *without* the protection circuit switch engaged is 140 watts per channel for the DSSM4/DSSM6 and 200 watts per channel for the DSSM8. Power handling *with* the protection circuit switch engaged is 70 watts per channel for the DSSM4/DSSM6 and 100 watts per channel for the DSSM8. Never place the DSSM's where they will be exposed to excessive moisture or heat. Allow for 1 inch of clearance above the top of the unit.